

## Illnesses and Injuries in California<sup>1</sup> Associated With Pesticide Residue in Agricultural Fields, 1982-2009

Year	Systemic/ Respiratory <sup>2</sup>		Topical <sup>2</sup>		TOTAL
	Definite/ Probable <sup>3</sup>	Possible <sup>3</sup>	Definite/ Probable <sup>3</sup>	Possible <sup>3</sup>	
1982	23	43	48	117	<b>231</b>
1983	19	29	41	96	<b>185</b>
1984	8	9	49	112	<b>178</b>
1985	25	24	156	164	<b>370</b>
1986	30	14	155	60	<b>259</b>
1987	58	83	52	180	<b>375</b>
1988	57	37	74	202	<b>370</b>
1989	17	22	30	93	<b>162</b>
1990	3	32	11	119	<b>165</b>
1991	16	38	7	87	<b>148</b>
1992	11	57	19	112	<b>199</b>
1993	10	38	2	67	<b>117</b>
1994	33	31	5	42	<b>111</b>
1995	20	48	74	89	<b>231</b>
1996	29	37	15	60	<b>141</b>
1997	83	44	20	62	<b>209</b>
1998	40	19	5	47	<b>111</b>
1999	23	17	0	42	<b>82</b>
2000	21	30	2	22	<b>75</b>
2001	7	22	0	17	<b>46</b>
2002	30	23	13	12	<b>78</b>
2003	4	17	4	33	<b>58</b>
2004	15	27	1	25	<b>68</b>
2005	1	9	2	16	<b>28</b>
2006	1	9	2	13	<b>25</b>
2007	24	15	1	18	<b>58</b>
2008	48	16	2	7	<b>73</b>
2009	80	9	7	4	<b>100</b>
<b>Total</b>	<b>736</b>	<b>799</b>	<b>797</b>	<b>1918</b>	<b>4253</b>

<sup>1</sup> **Source:** California Department of Pesticide Regulation, Pesticide Illness and Surveillance Program.

<sup>2</sup> **Type of Illness:** Categorization of the type of symptoms experienced.

- Systemic : Any health effects not limited to the respiratory or skin and/or eye. Cases involving multiple illness symptom types including systemic symptoms are included in the systemic category.
- Respiratory : Health effects involving any part of the respiratory tree.
- Topical : Health effects involving only the eyes and/or skin. This excludes outward physical signs (miosis and lacrimation) related to effects on internal bodily systems. These signs are classified under 'Systemic.'

<sup>3</sup> **Associated With:** Includes cases classified as definitely, probably or possibly related to pesticide exposure.

- Definite : High degree of correlation between pattern of exposure and resulting symptomatology. Requires both medical evidence (such as measured cholinesterase inhibition, positive allergy tests, characteristic signs observed by medical professional) and physical evidence of exposure (environmental and/or biological samples, exposure history) to support the conclusions.
- Probable : Relatively high degree of correlation exists between the pattern of exposure and the resulting symptomatology. Either medical or physical evidence is inconclusive or unavailable.
- Possible : Health effects correspond generally to the reported exposure, but evidence is not available to support a relationship.

#### **Whom to Contact:**

California Department of Pesticide Regulation  
Worker Health and Safety Branch  
Phone: (916) 445-4222.  
Physical address: 1001 I St., Sacramento CA 95814-2828.  
Mailing address: P.O. Box 4015, Sacramento, CA 95812-4015  
Fax: (916) 445-4280  
[www.cdpr.ca.gov](http://www.cdpr.ca.gov)

#### **About the Pesticide Illness Surveillance Program Data**

Pesticide-related illnesses have been tracked within the state of California for more than 50 years. The California Environmental Protection Agency, Department of Pesticide Regulation (DPR) maintains a surveillance program which records human health effects of pesticide exposure. The Pesticide Illness Surveillance Program (PISP) documents information on adverse effects from pesticide products, whether elicited by the active ingredients, inert ingredients, impurities, or breakdown products. This program maintains a database, which is utilized for evaluating the circumstances of pesticide exposures resulting in illness. This database is consulted regularly by staff who evaluate(s) the effectiveness of the DPR pesticide safety programs and recommend changes when appropriate.